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ABSTRACT

Arrayed Waveguide Grating with Reduced Crosstalk

An Arrayed Waveguide Grating (AWG) having reduced adjacent crosstalk is
5 described. Interspersed ones (21) of the output waveguides of the AWG are of
different widths to the remaining output waveguides (23), along corresponding
portions of their lengths, preferably in at least an initial portion of the fan-out region.
Passband uniformity is maintained by making all the output waveguides substantially
of the same width at the output slab coupler. In the illustrative embodiment, alternate
10 ones of the plurality of output waveguides are tapered to a narrower width (W_2)
between first and second portions (22,24) thereof and the remaining ones of the output
waveguides are of a substantially uniform width (W_1) between corresponding first and
second portions thereof.

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